

FUNCTIONAL DYE CONTAINING LONG-CHAIN ALKYL GROUP

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Abstract

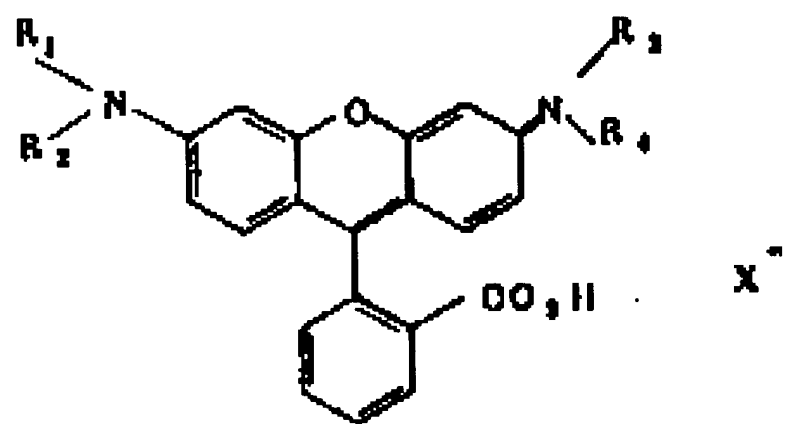
NEW MATERIAL: Rhodamine compounds of formula I, wherein R1, R3 are each lower alkyl; R2 is lower alkyl, 10C or higher long-chain alkyl; R4 is 10C or higher long-chain alkyl; X<-> is an anion, or squarylium compounds of formula II, wherein R2 is 10C or higher long-chain alkyl.

EXAMPLE: 3,6-(N,N'-Diethyl-N,N'-dioctadecyl) diamino-9-(2-carboxypheyl) xanthi lium perchlorate.

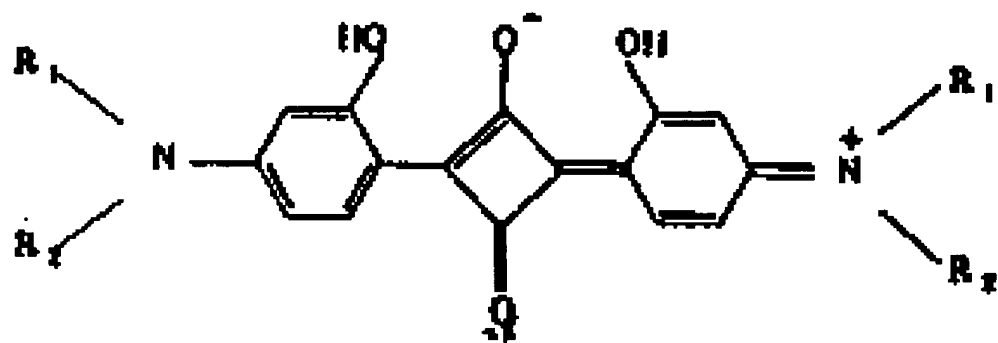
USE: Materials for molecular electronics, which are suitable for use as materials for photoelectric converter, optical memory, etc.

PREPARATION: 2-(4-N,N'-Diethylamino-2-hydroxybenzoyl)-benzoic acid, which is a condensate between N-ethyl-N-octadecyl-m-hydroxyaniline and phthalic anhydride, is reacted with N-ethyl-N-octadecyl-m-hydroxyaniline to obtain the compd. of formula I.

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I



II